

Iowa

Science and Engineering Profile

| | STATE | U.S. | Rank | | STATE | U.S. | Rank |
|-------------------------------------|----------|-------------|------|---|---------|-----------|------|
| Doctoral scientists, 1995 | 4,071 | 453,928 | 30 | Total R&D performance, 1995 (millions) | \$1,391 | \$177,210 | 27 |
| Doctoral engineers, 1995 | 604 | 86,738 | 33 | Industry R&D, 1995 (millions) | \$998 | \$130,332 | 26 |
| S&E doctorates awarded, 1996 | 457 | 27,230 | 20 | Academic R&D, 1996 (millions) | \$332 | \$22,481 | 24 |
| of which, in life sciences | 34% | 25% | | of which, in life sciences | 61% | 56% | |
| in engineering | 26% | 23% | | in engineering | 19% | 16% | |
| in physical sciences | 14% | 14% | | in physical sciences | 7% | 10% | |
| S&E postdoctorates, 1996 | 526 | 37,019 | 23 | Higher education current-fund expenditures, 1995 (millions) | \$2,753 | \$182,602 | 22 |
| in doctorate-granting institutions | | | | | | | |
| S&E graduate students, 1996 | 5,385 | 430,631 | 27 | Number of SBIR awards, 1990-1997 | 45 | 31,155 | 42 |
| in doctorate-granting institutions | | | | Patents issued to state residents, 1997 | 398 | 61,699 | 30 |
| Population, 1997 (000s) | 2,852 | 271,464 | 31 | Gross state product, 1996 (billions) | \$76.3 | \$7,677.4 | 29 |
| Civilian labor force, 1997 (000s) | 1,577 | 137,564 | 30 | of which, agriculture | 8% | 2% | |
| Personal income per capita, 1997 | \$23,102 | \$25,598 | 33 | manufacturing, mining, construction | 28% | 23% | |
| Federal spending | | | | transportation, communication, utilities | 8% | 8% | |
| Total expenditures, 1997 (millions) | \$13,557 | \$1,405,060 | 32 | wholesale and retail trade | 15% | 16% | |
| R&D obligations, 1996 (millions) | \$214 | \$66,087 | 36 | finance, insurance, real estate | 14% | 19% | |
| | | | | services | 15% | 20% | |
| | | | | government | 11% | 12% | |

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

| | Total | Federal Intramural | All FFRDCs | Industrial firms | Universities & Colleges | Other nonprofits | State & local government | State rank |
|----------------------------------|---------|-----------------------|------------|------------------|----------------------------|---------------------|-----------------------------|------------|
| Total, all agencies | 214,114 | 28,948 | 23,447 | 21,020 | 136,945 | 2,375 | 1,379 | 36 |
| Department of Agriculture | 37,874 | 25,523 | 0 | 82 | 12,246 | 7 | 16 | 8 |
| Department of Commerce | 1,371 | 0 | 4 | 10 | 1,357 | 0 | 0 | 33 |
| Department of Defense | 22,135 | 840 | 87 | 14,715 | 6,493 | 0 | 0 | 39 |
| Department of Energy | 27,125 | 0 | 23,356 | 0 | 3,769 | 0 | 0 | 21 |
| Dept. of Health & Human Services | 86,509 | 4 | 0 | 99 | 83,419 | 2,363 | 624 | 26 |
| Department of Interior | 2,648 | 2,581 | 0 | 0 | 67 | 0 | 0 | 42 |
| Department of Transportation | 10,184 | 0 | 0 | 5,562 | 3,883 | 0 | 739 | 17 |
| Environmental Protection Agency | 3,564 | 0 | 0 | 0 | 3,559 | 5 | 0 | 19 |
| Nat'l Aeronautics & Space Admin. | 8,018 | 0 | 0 | 552 | 7,466 | 0 | 0 | 29 |
| National Science Foundation | 14,686 | 0 | 0 | 0 | 14,686 | 0 | 0 | 29 |
| State rank | 36 | 39 | 16 | 41 | 26 | 40 | 31 | |

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable